



RCE/2812#

<b>REQUEST FOR CONTINUED EXAMINATION (RCE) TRANSMITTAL</b>  Subsection (b) of 35 U.S.C. § 132, effective on May 29, 2000, provides for continued examination of an utility or plant application filed on or after June 8, 1995. See The American Inventors Protection Act of 1999 (AIPA).	Application Number	09/2533
	Filing Date	February 19, 1999
	First Named Inventor	Paul A. Farrar
	Group Art Unit	2812
	Examiner Name	Ron Pompey
	Attorney Docket Number	303.572US1

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This is a Request for Continued Examination (RCE) under 37 C.F.R. § 1.114 of the above-identified application entitled SELECTIVE DEPOSITION OF SOLDER BALL CONTACTS.

Submission required under 37 C.F.R. § 1.114

#15/RCE  
1/31/02  
V. Vannall

1. ☐ Consider the amendment(s)/reply under 37 C.F.R. § 1.116 previously filed on ☐
2. ☐ Consider the arguments in the Appeal Brief or Reply Brief previously filed on ☐
3. ☒ An Amendment Under 37 CFR § 1.116 (7 pages) is enclosed.
4. ☐ A new power of attorney (☐ pages) is enclosed.
5. ☒ An Information Disclosure Statement is enclosed (1 page)
  - a. 1 Form(s) 1449
  - b. 13 Copies of IDS Citations
6. ☒ A check in the amount of \$740.00 is attached to pay the RCE filing fee required under C.F.R. § 1.17(e).
7. ☒ The Commissioner is hereby authorized to credit overpayments or charge any fees set forth in 37 C.F.R. §§ 1.16 through 1.18 to Deposit Account No. 19-0743.
8. ☒ A petition for extension of time in the prior application (1 pages) is enclosed along with a check in the amount of \$110.00 to pay the extension fee.
9. ☒ Other: Clean Version of Pending Claims (5 pages); Clean Version of Amended Specification Paragraph (1pg); Request for Preexamination Interview (1pg).

SCHWEGMAN, LUNDBERG, WOESSNER & KLUTH, P.A.  
P.O. Box 2938, Minneapolis, MN 55402 (612-373-6900)

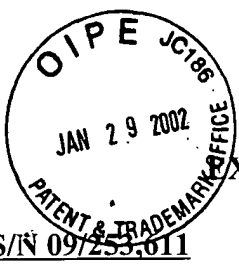
By: Daniel J. Kluth  
Atty: Daniel J. Kluth  
Reg. No. 32,146

Customer Number **21186**

CERTIFICATE UNDER 37 CFR 1.8: The undersigned hereby certifies that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail, in an envelope addressed to: Commissioner for Patents, Box RCE, Washington, D.C. 20231, on this 17<sup>th</sup> day of January, 2002.

Name Amy Moriarty

Signature Amy Moriarty



**EXPEDITED PROCEDURE - EXAMINING GROUP 2812**

S/N 09/253,611

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Paul A. Farrar

Examiner: Ron Pompey

Serial No.: 09/253,611

Group Art Unit: 2812

Filed: February 19, 1999

Docket: 303.572US1

Title: SELECTIVE DEPOSITION OF SOLDER BALL CONTACTS

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V. Vannab

**AMENDMENT & RESPONSE UNDER 37 C.F.R. § 1.116**

Box RCE  
Commissioner for Patents  
Washington, D.C. 20231

In response to the final Office Action mailed September 27, 2001, please amend the application as follows.

**IN THE SPECIFICATION**

Please make the paragraph substitution indicated in the appendix entitled Clean Version of Amended Specification Paragraph. The specific change incorporated in the substitute paragraph is shown in the following marked-up version of the original paragraph:

The paragraph beginning on page 11, line 9 is amended as follows:

A still further embodiment is described with reference to Figures 4(A)-4(M) and 6(A)-6(C). In this embodiment, processing proceeds to the etching of through holes 180 to metal contact pads 150 as shown in Figure 4(M). Instead of removing the resist at this stage, a layer of lead [220] 225 is applied to the exposed portions of metal contact pads 150 through electrolysis. A layer of tin 230 is then formed on the layer of lead 225. The lead layer 225 is preferably approximately 0.91 microns deep. The tin layer 230 is preferably approximately 1.42 microns deep. The lead layer 225 and the tin layer 230 collectively form the solder contacts 200 as shown in Figure 6(A). Other metallurgies may be substituted for the lead/tin combination, and the deposition may include more than two layers.